

Appl. No. 10/676,058
Amdt. dated 10/14/2005
Reply to Office action of 09/16/2005
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-14. Canceled

15.(original) A structure, comprising:

 a continuous body that further comprises:

 a first part possessing a first functional property,

 a second part possessing a second functional property that is different from said first functional property;

 said first and second parts having any shape that can be formed by a molding process; and

 wherein said first and second functional properties constitute a pair of functional properties selected from the group of functional property pairs consisting of magnetic-corrosion resistant, controlled porosity-high thermal conductivity, high density-high strength, high thermal conductivity-low thermal expansion, wear resistant-high toughness, controlled porosity-high strength, high elastic modulus-high damping capacity, high strength-good machinability, controlled porosity-highly fatigue resistant, magnetic-non-magnetic, high hardness-high toughness, wear resistant-oxidation resistant, easy joinability-corrosion resistant, and low internal stress-controlled porosity.

16.(original) A structure, comprising:

 a continuous body, having at least two parts, each such part being optimized to perform a function other than to serve as an attachment medium, said parts having any shape that can be formed by a molding process.

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17.(original) The structure described in claim 16 wherein the function that any given part is optimized to perform is selected from the group consisting of magnetic, corrosion resistant, controlled porosity, high thermal conductivity, high density, high strength, low thermal expansion, wear resistant, high elastic modulus, high damping capacity, good machinability, fatigue resistant, high hardness, high toughness, high melting point, oxidation resistant, easy joinability, and low internal stress .

18.(original) The structure described in claim 16 further comprising at least one cavity as part of the structure

19.(original) A cutting tool, comprising:

in one continuous body, a handle and a cutting edge;

said handle having a shape and being composed of a material whereby it is optimized for gripping a cutting edge and for being gripped;

said cutting edge having a shape and being composed of a material whereby it is optimized for cutting; and

no other materials being present at any interface between said handle and said cutting edge.

20.(original) The cutting tool described in claim 19 wherein said handle is selected from the group consisting of iron, all iron-based alloys, carbon steels, low-alloyed steels, and stainless steels).

21.(original) The cutting tool described in claim 19 wherein said cutting edge is selected from the group consisting of all tool steels, water-hardening steels (Type W), shock-resisting steels (Type S), cold-work steels (Type O, A, D and H), hot-work steels (Type H), High speed steels (Type T and M), mold steels (Type P), and tungsten carbide.

22.(original) A wire drawing die, comprising:

in one continuous body, a handle and a wire drawing die;

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 said handle having a shape and being composed of a material whereby it is optimized for gripping a wire drawing die and for being gripped;

 said wire drawing die having a shape and being composed of a material whereby it is optimized for drawing wire; and

 no other materials being present at any interface between said handle and said die.

23.(original) The wire drawing die described in claim 22 wherein said handle is selected from the group consisting of iron, all iron-based alloys, carbon steels, low-alloyed steels, and stainless steels).

24.(original) The wire drawing die described in claim 22 wherein said die is selected from the group consisting of all tool steels, water-hardening steels (Type W), shock-resisting steels (Type S), cold-work steels (Type O, A, D and H), hot-work steels (Type H), High speed steels (Type T and M), mold steels (Type P), and tungsten carbide.